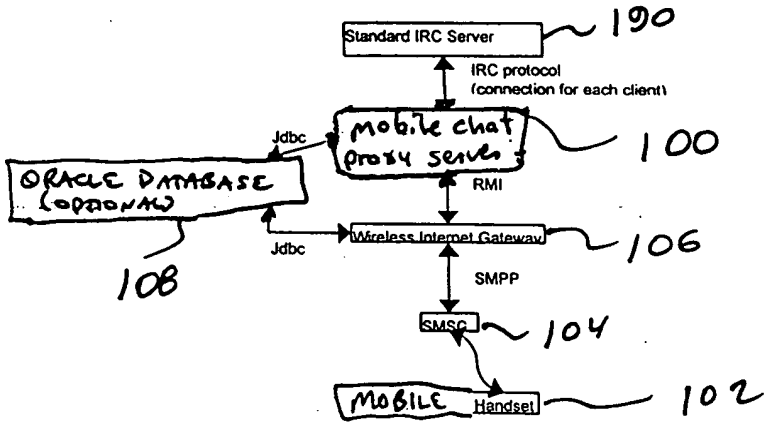

Standard IRC Server
190
IRC protocol
(connection for each client)
Jdbc
mobile chat
proxy server
100
ORACLE DATABASE
(optional)
RMI
Jdbc
Wireless Internet Gateway
106
108
SMPP
SMSC
104
MOBILE
Handset
102

FIG. 1

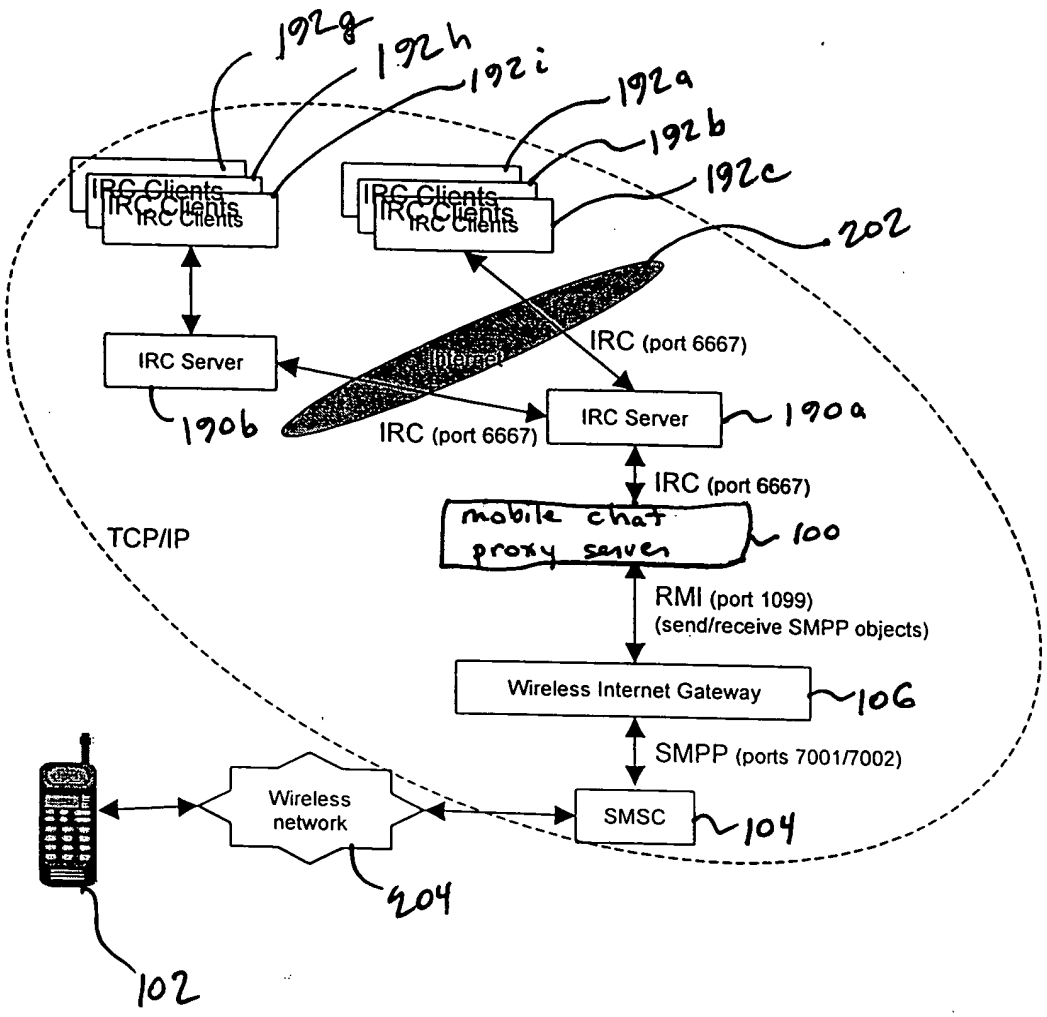

192g
192h
192i
192a
192b
192c
202
IRC Clients
IRC Clients
IRC Clients
IRC Clients
IRC Server
1906
Internet
IRC (port 6667)
IRC (port 6667)
IRC Server
190a
IRC (port 6667)
mobile chat proxy server
100
TCP/IP
RMI (port 1099)
(send/receive SMPP objects)
Wireless Internet Gateway
106
SMPP (ports 7001/7002)
Wireless network
SMSC
104
204
102

FIG. 2

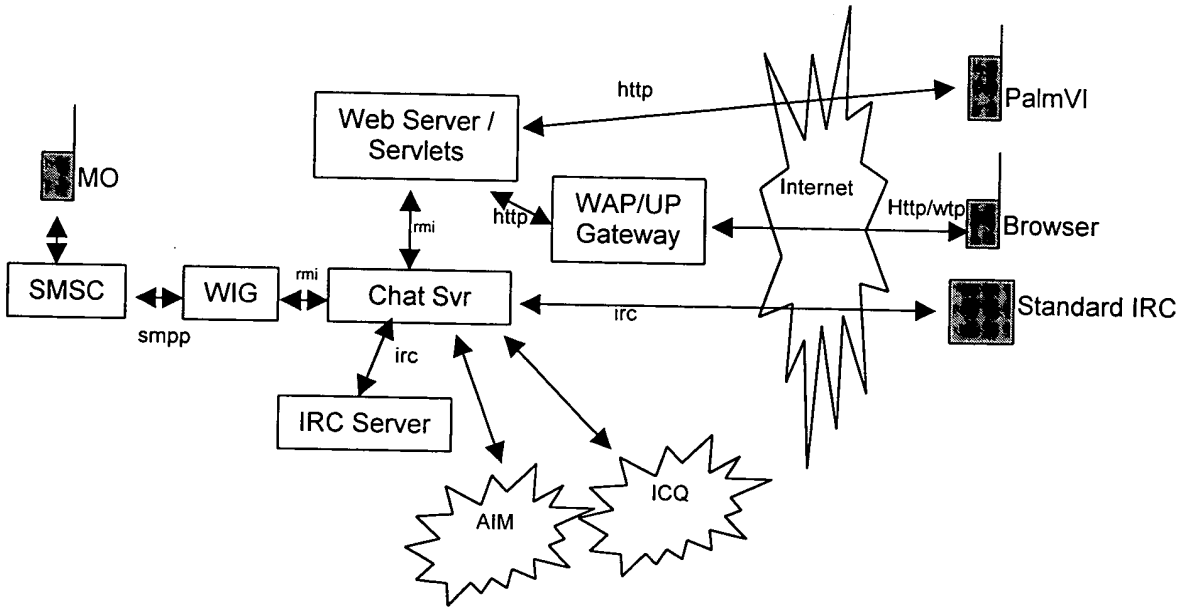
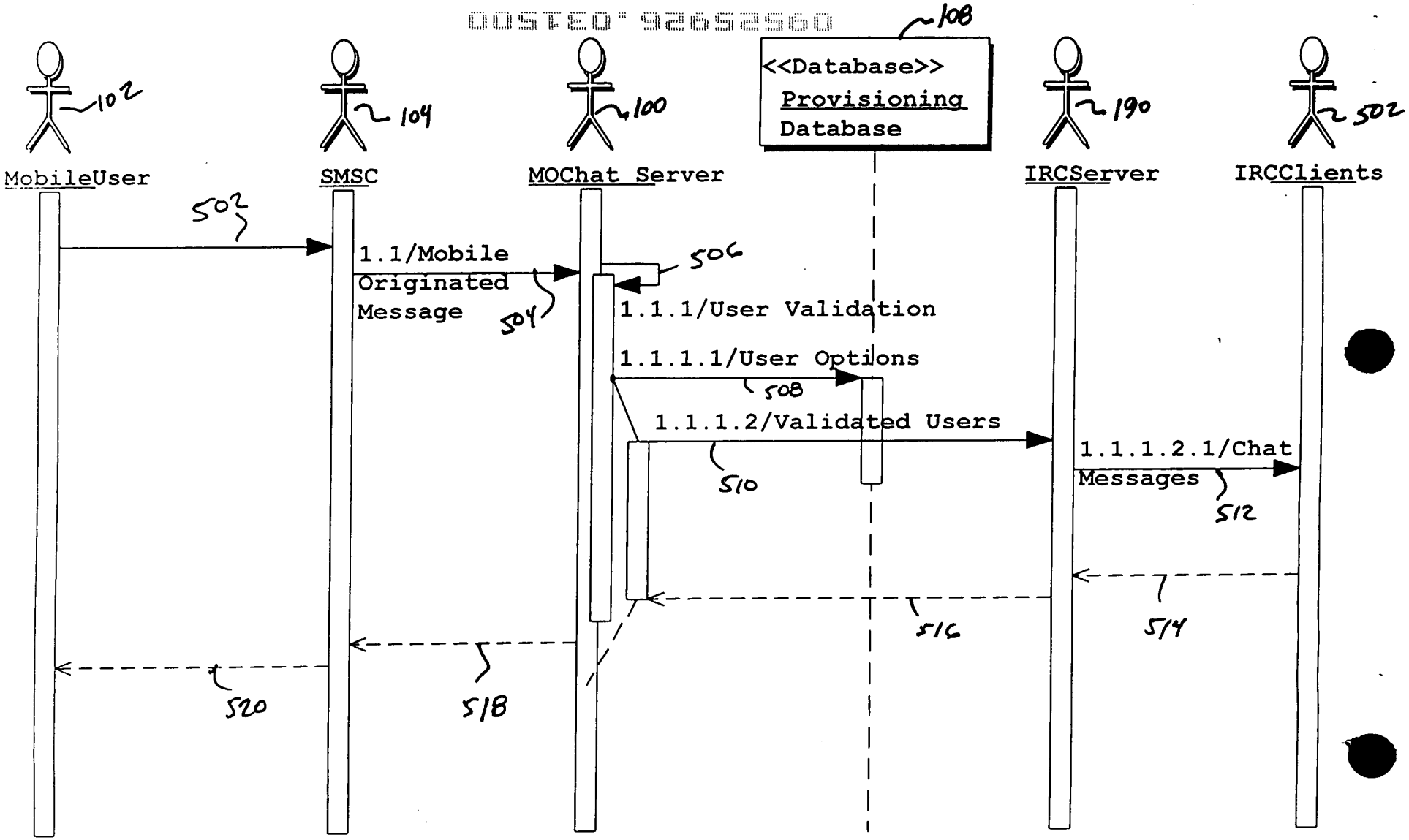

MO
SMSC
WIG
smpp
rmi
Chat Svr
rmi
irc
IRC Server
Web Server / Servlets
http
WAP/UP Gateway
http
Internet
http
PalmVI
Http/wtp
Browser
irc
Standard IRC
AIM
ICQ

FIG. 3

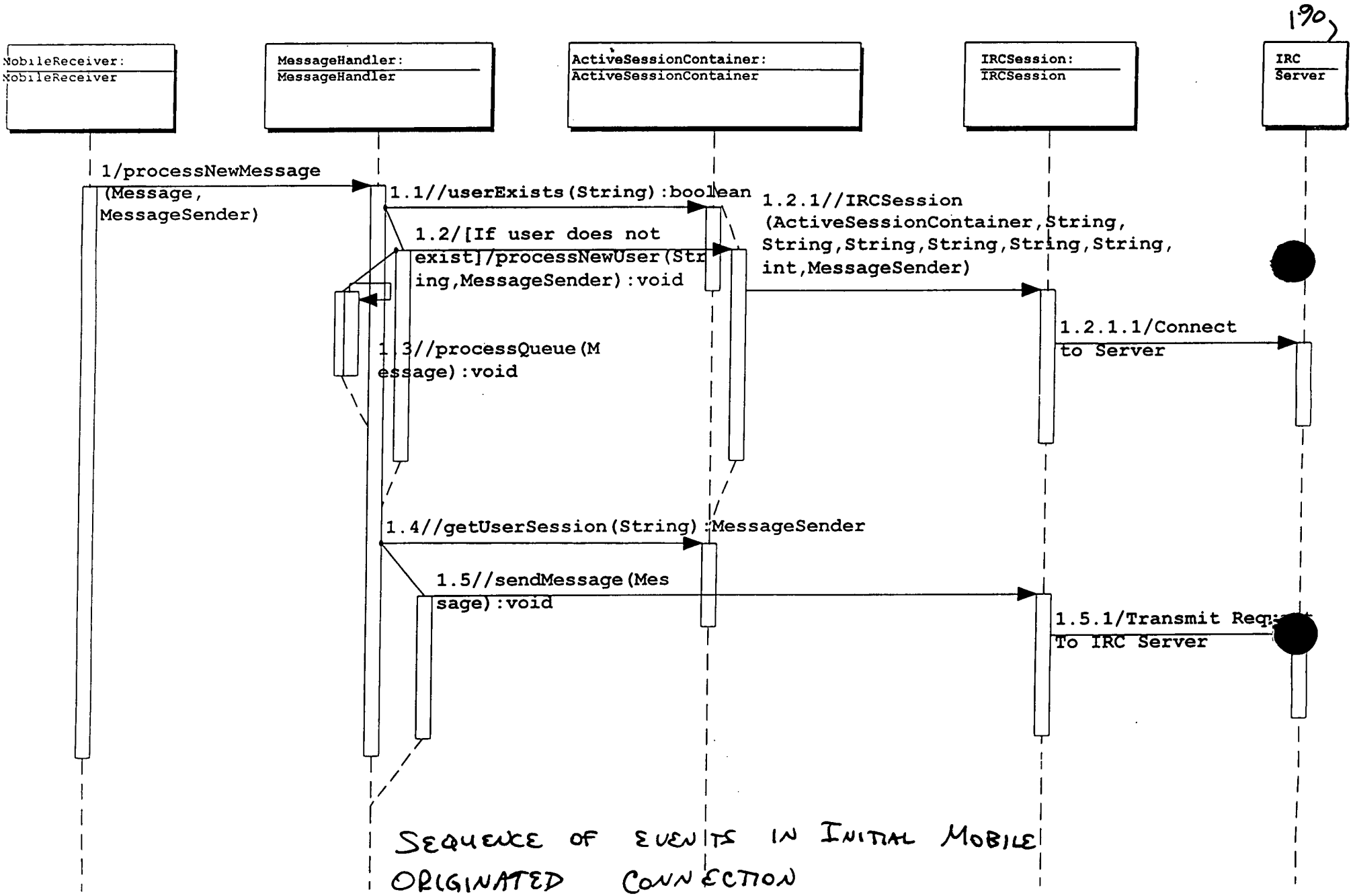
DOCKET 92652560



Overview of Mobile Originated Chat Server

Fig. 4

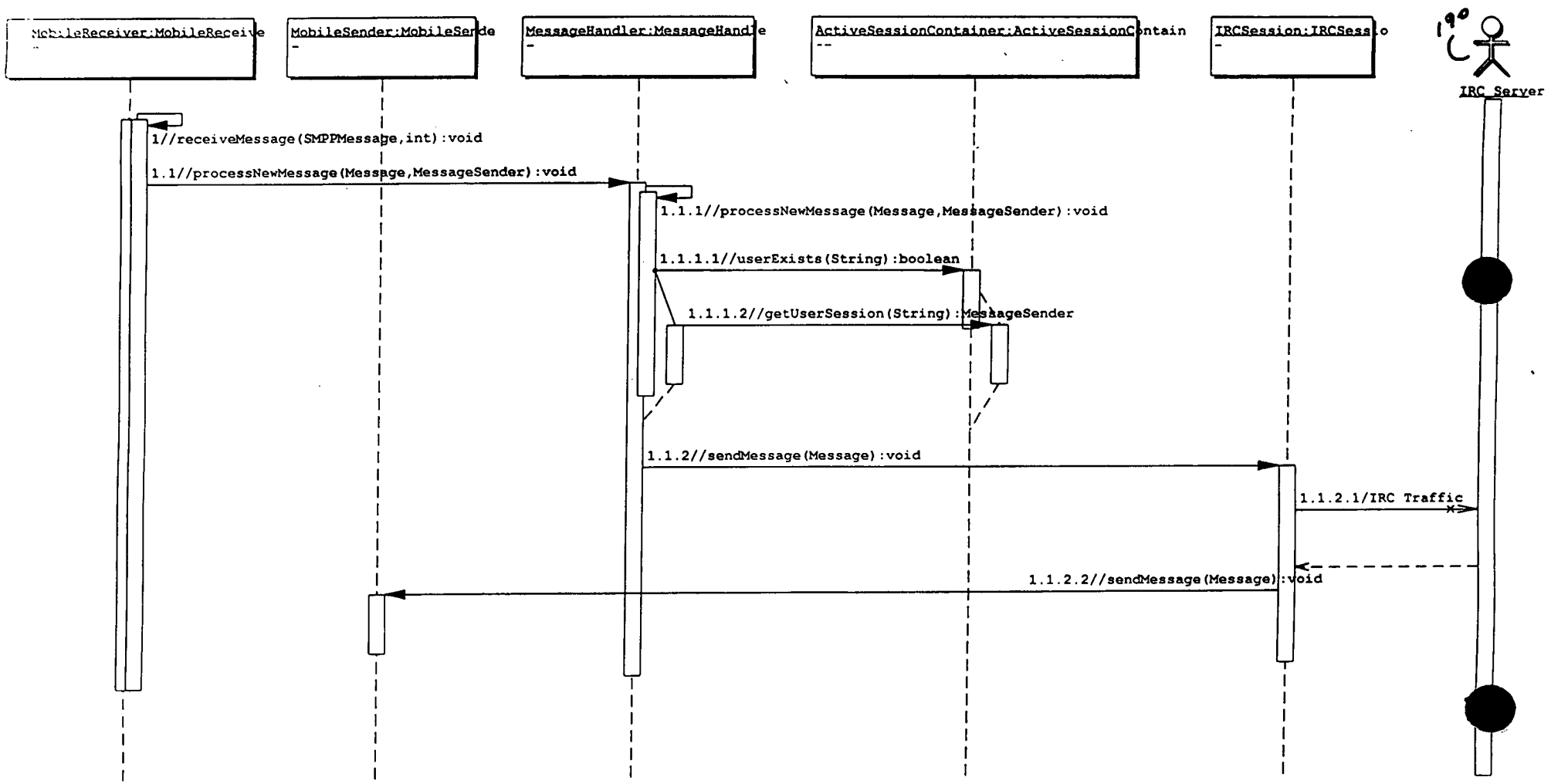
DOCKET 92652560



SEQUENCE OF EVENTS IN INITIAL MOBILE ORIGINATED CONNECTION

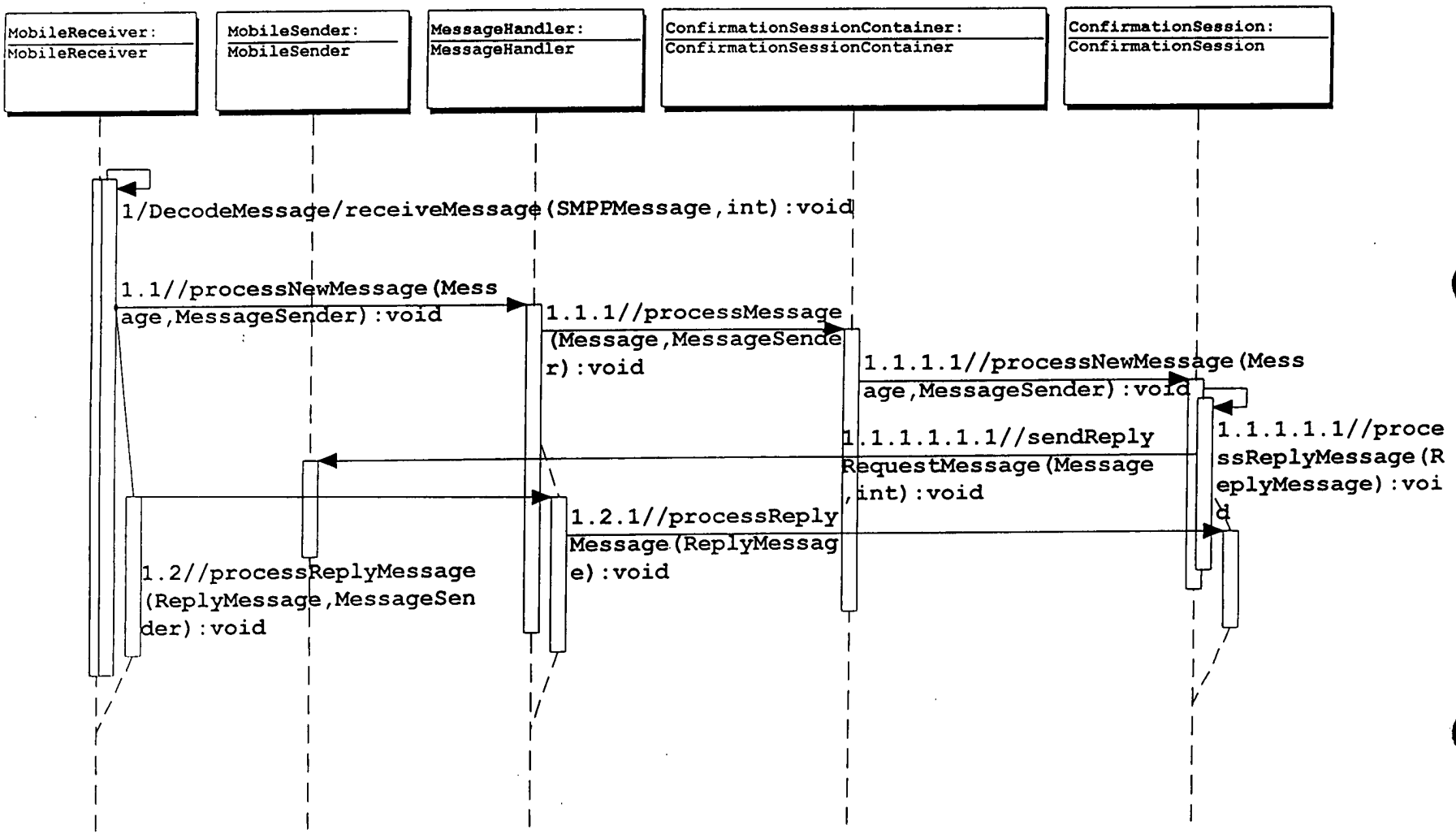
FIG. 5

POSTED 9265260



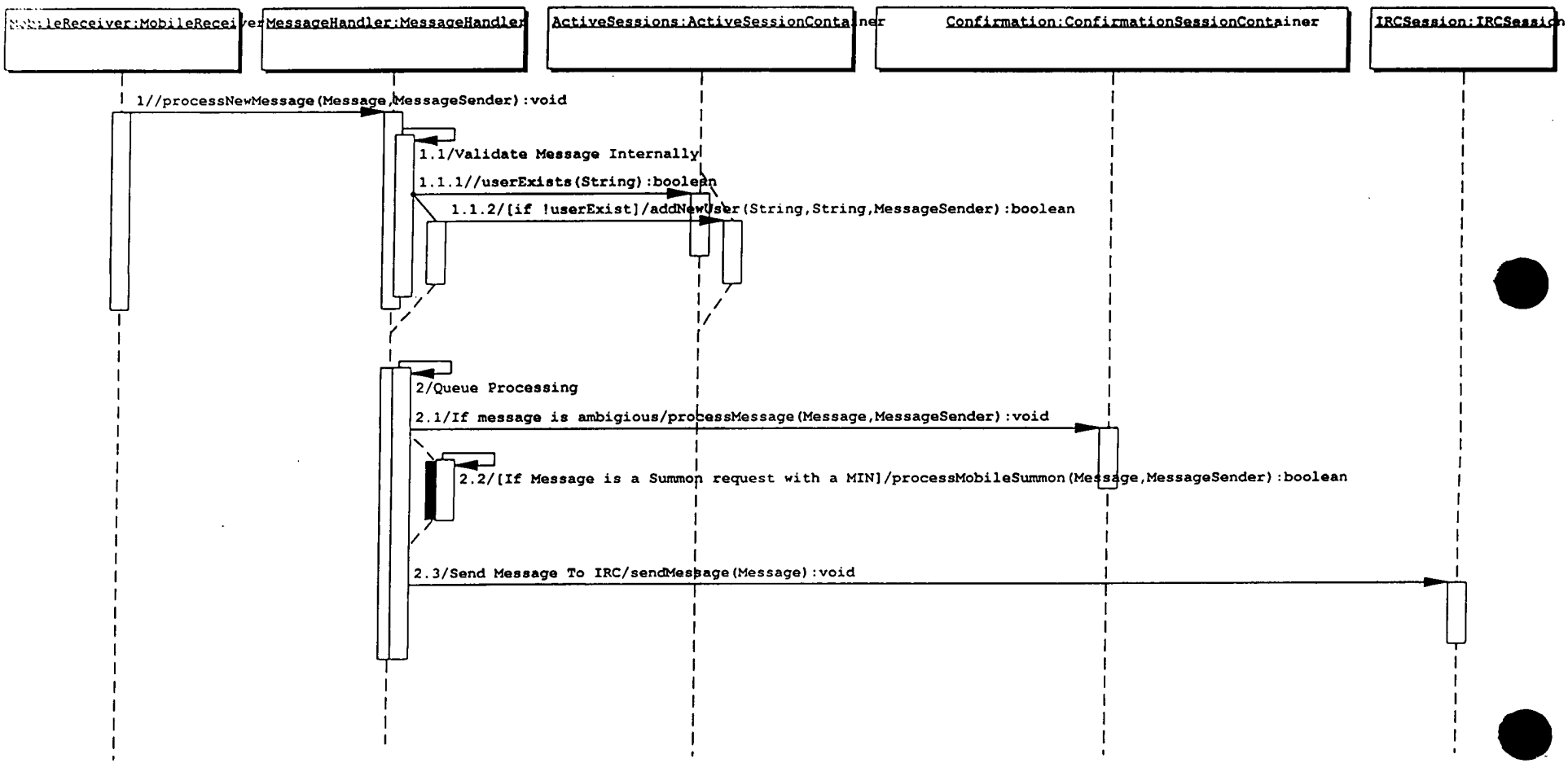
TOP LEVEL SEQUENCE OF EVENTS IN A MOBILE ORIGINATED CONVERSATION

FIG. 6



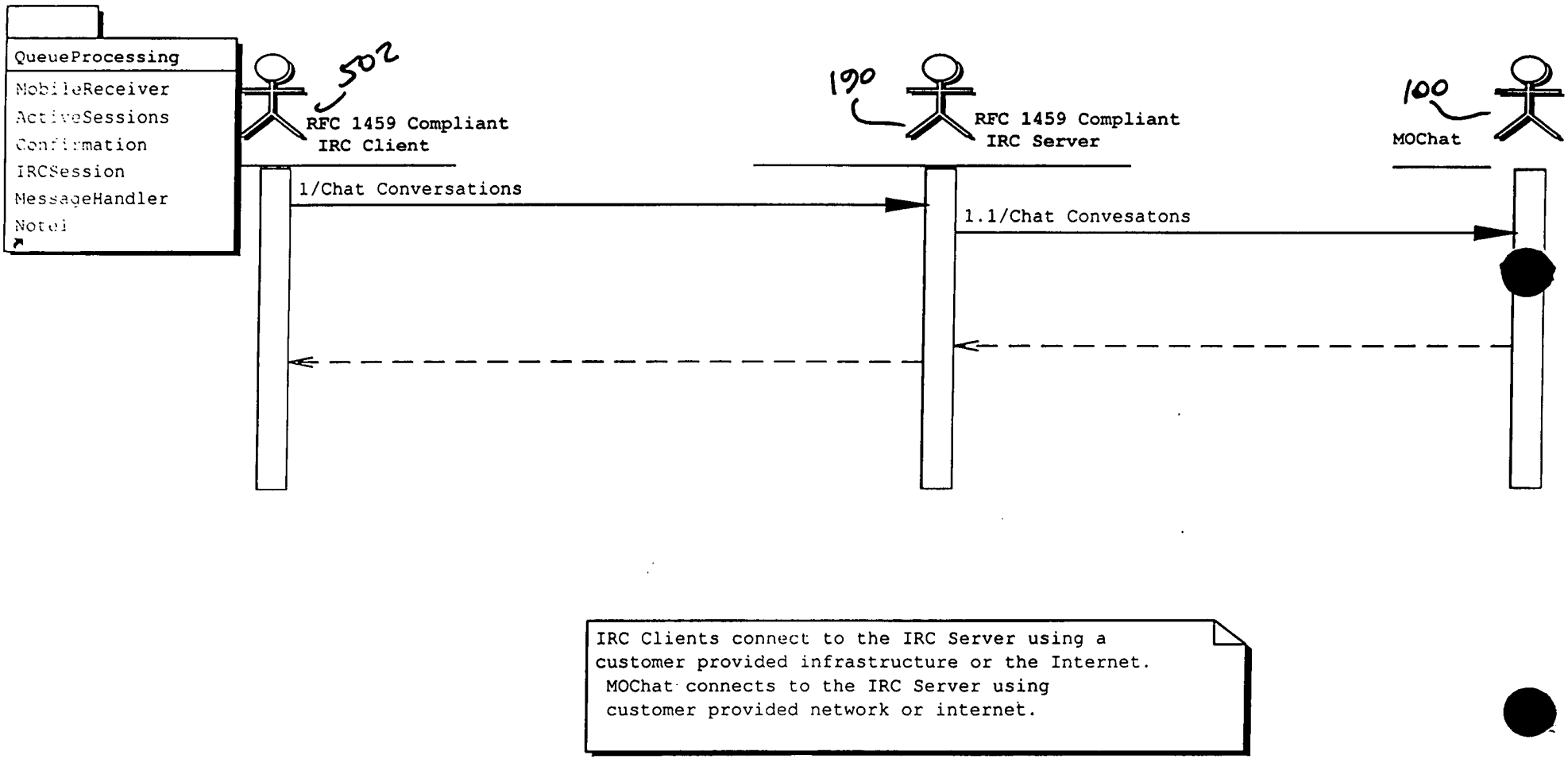
TOP LEVEL SEQUENCE OF EVENTS IN AN IMPROPERLY FORMATTED MOBILE ORIGINATED MESSAGE

FIG 7



PROCESSING OF MESSAGE QUEUE

FIG. 8



SEQUENCE OF EVENTS IN AN APPLET BASED CONVERSATION

FIG. 9

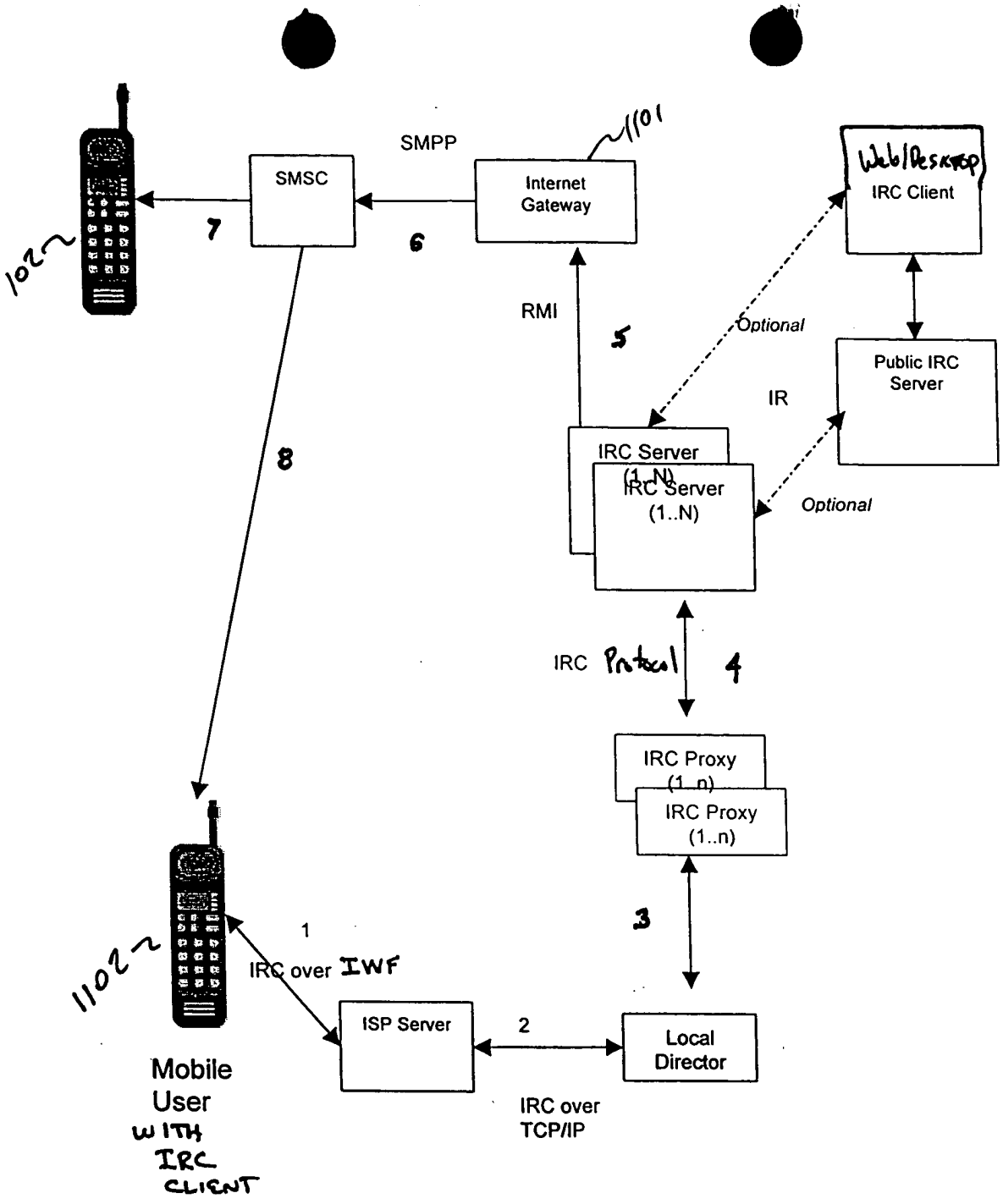
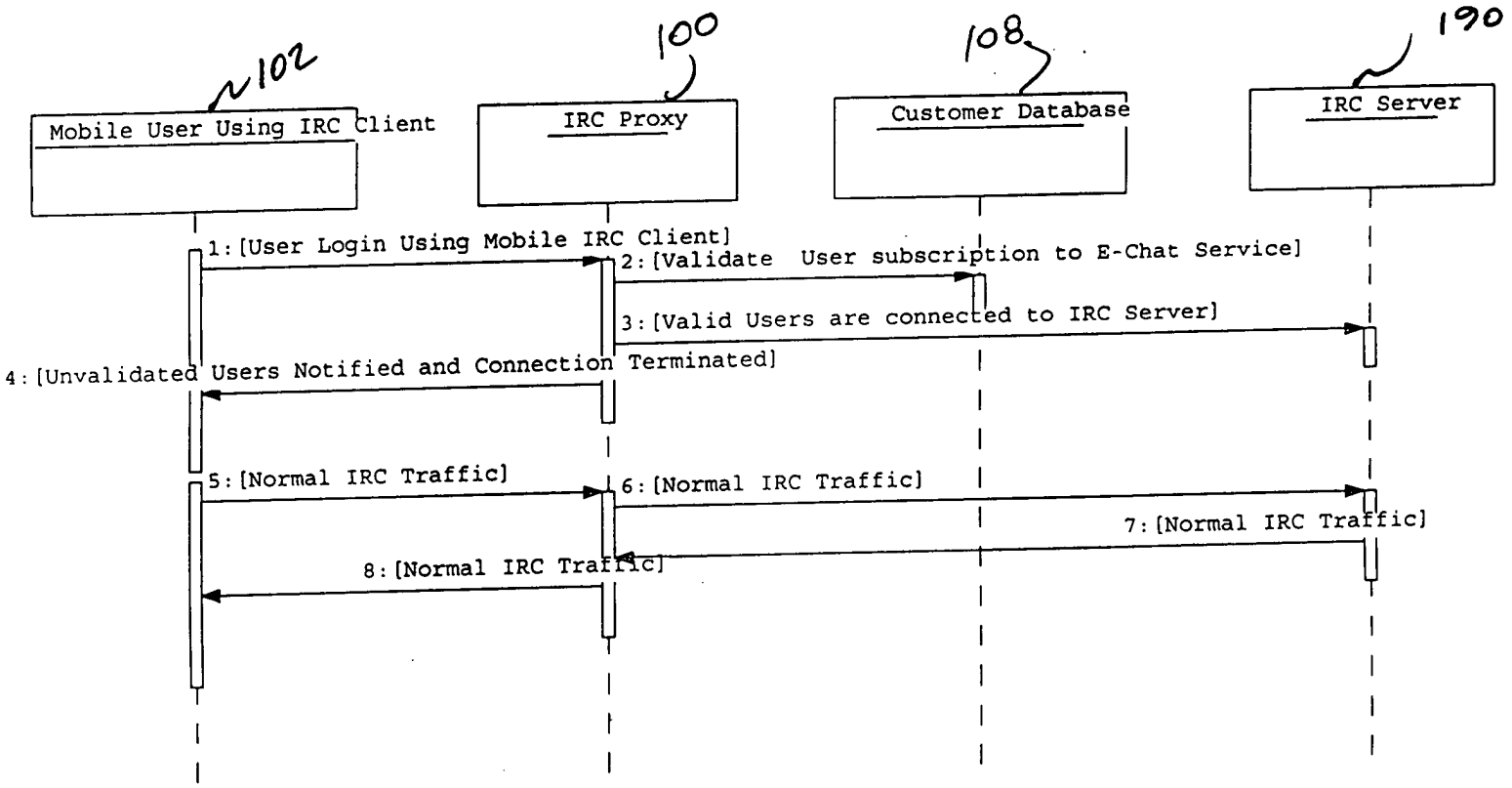
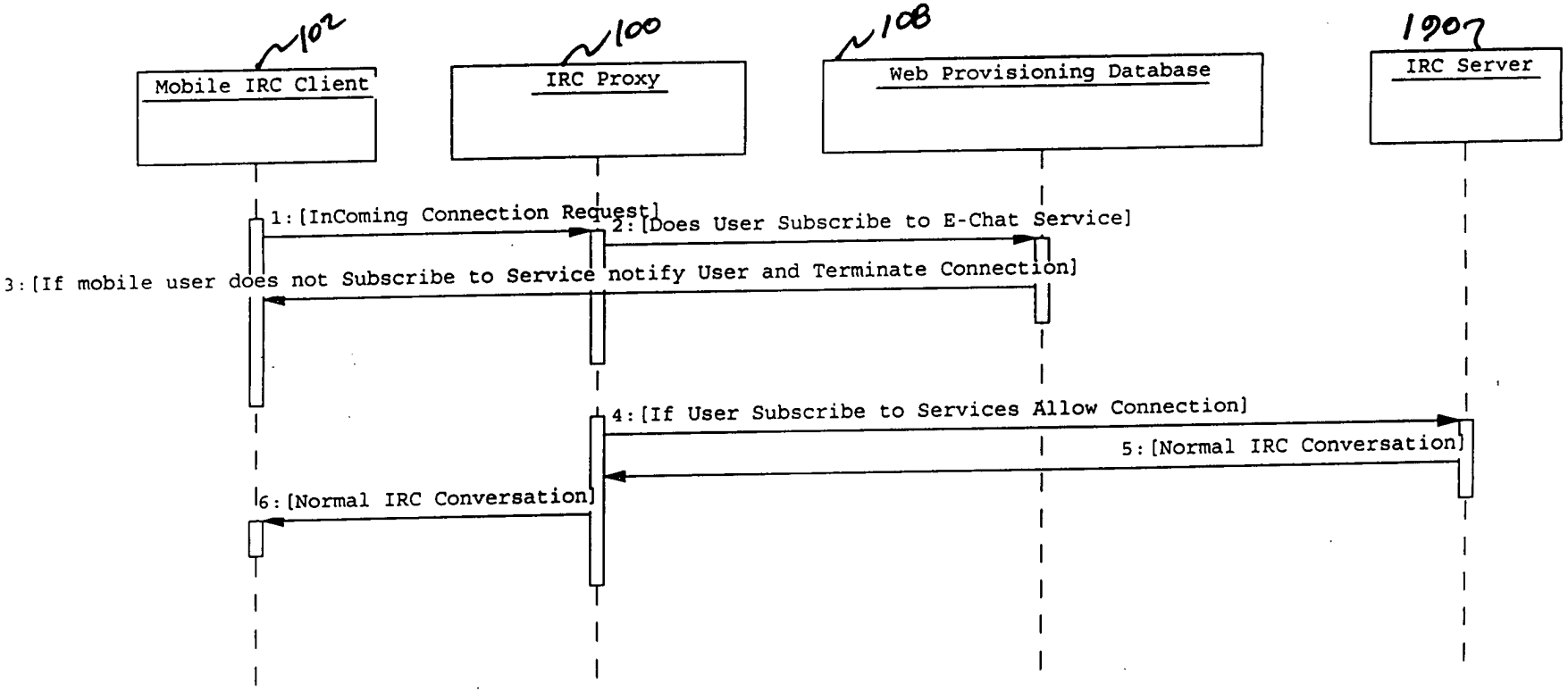

SMPP
1101
SMSC
Internet Gateway
Web/Desktop
IRC Client
102
7
6
RMI
5
Optional
Public IRC Server
IR
IRC Server (1..N)
IRC Server (1..N)
8
Optional
IRC Protocol
4
IRC Proxy (1..n)
IRC Proxy (1..n)
3
1102
1
IRC over IWF
ISP Server
2
Local Director
Mobile User WITH IRC CLIENT
IRC over TCP/IP

FIG. 10



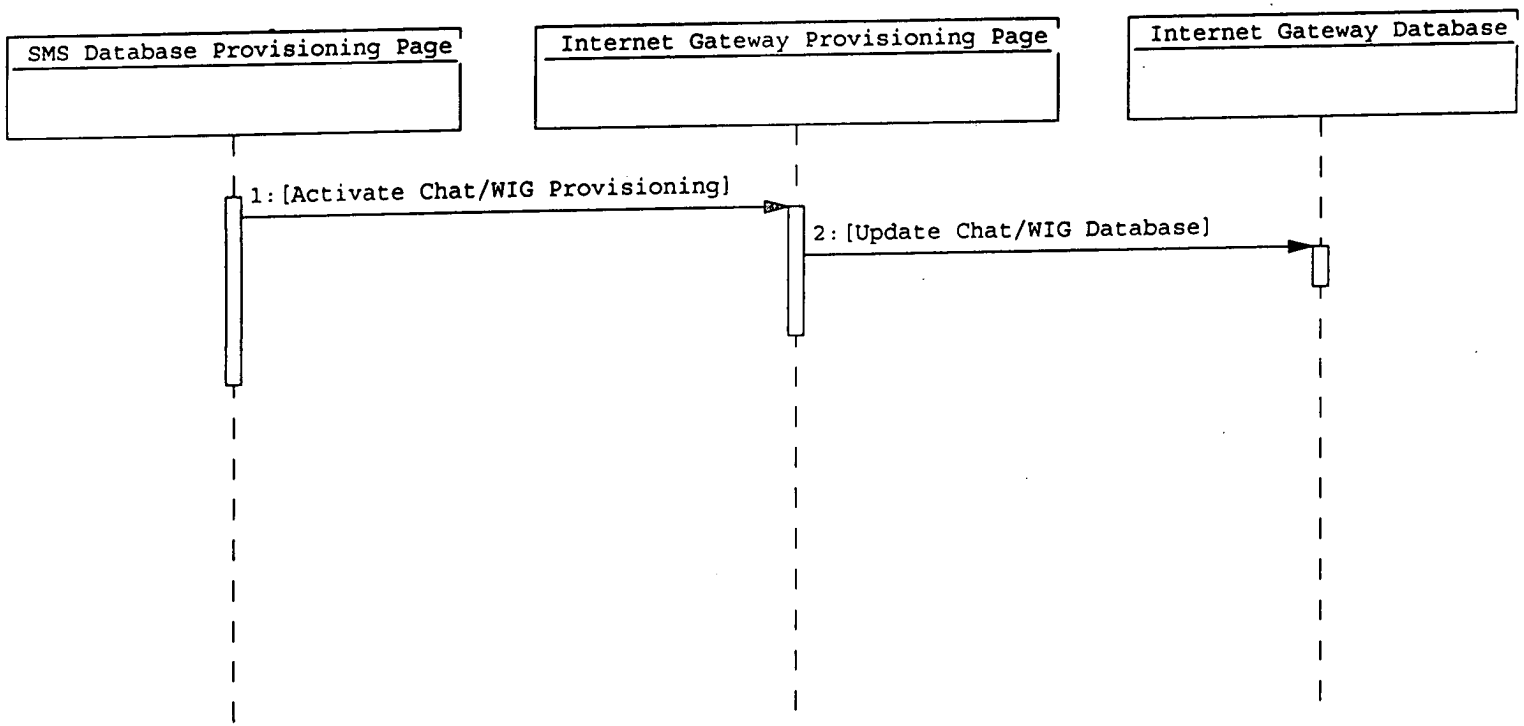
INITIAL CONNECTION TO IRC SERVER

FIG. 11



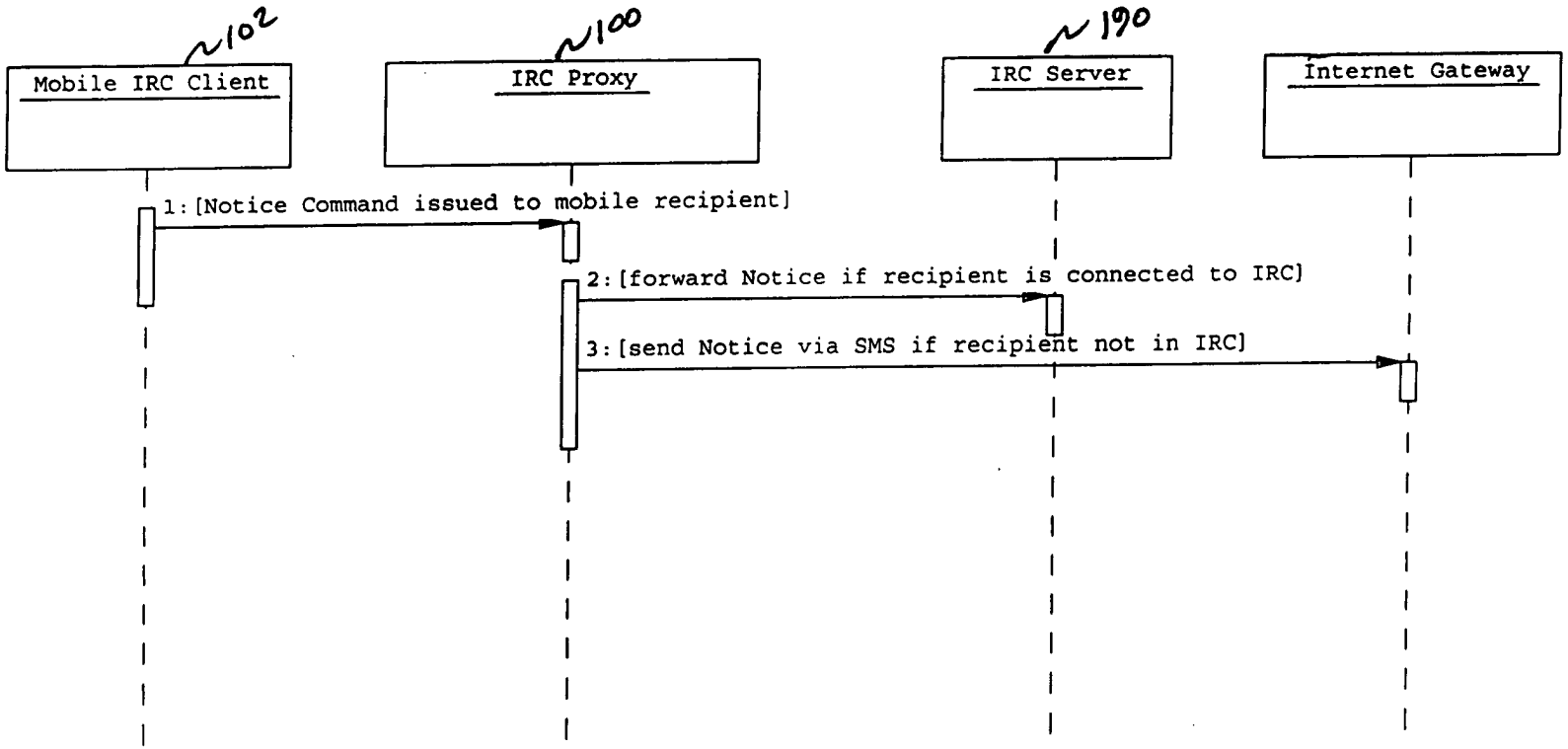
User Validation

Fig. 12



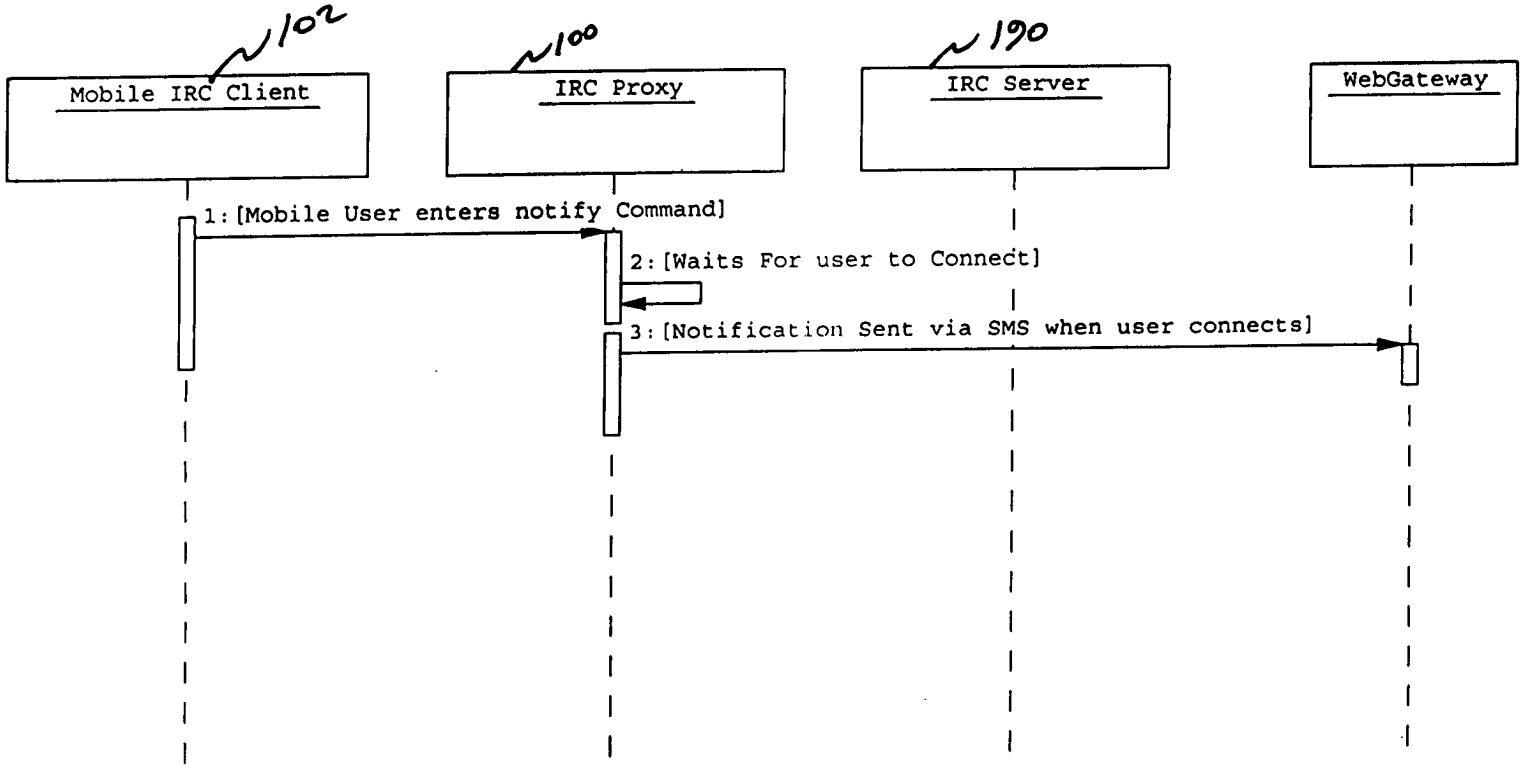
PROVISIONING DATABASE UPDATE

FIG. 13



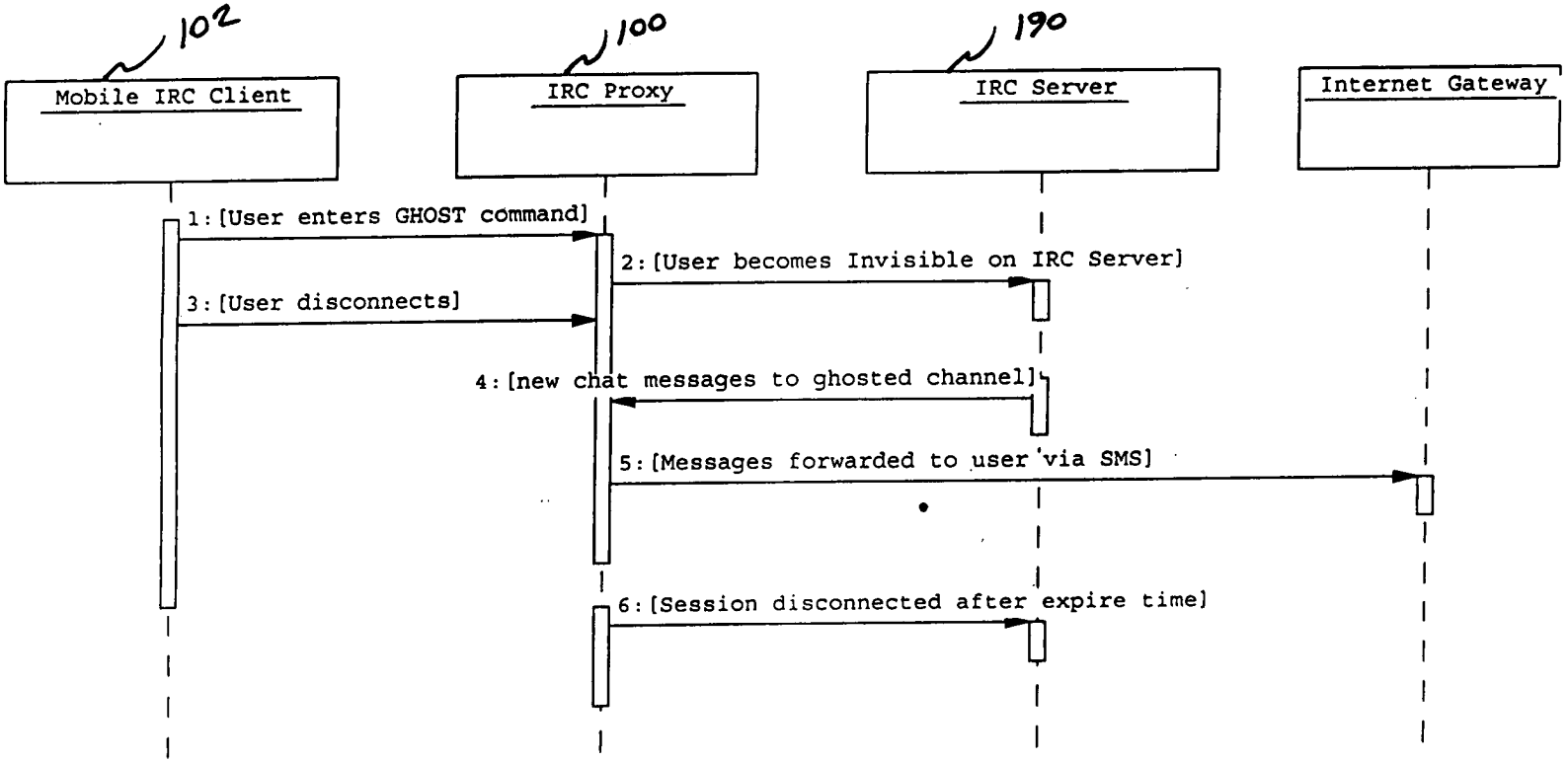
NOTICE COMMAND

FIG. 14



NOTIFY COMMAND

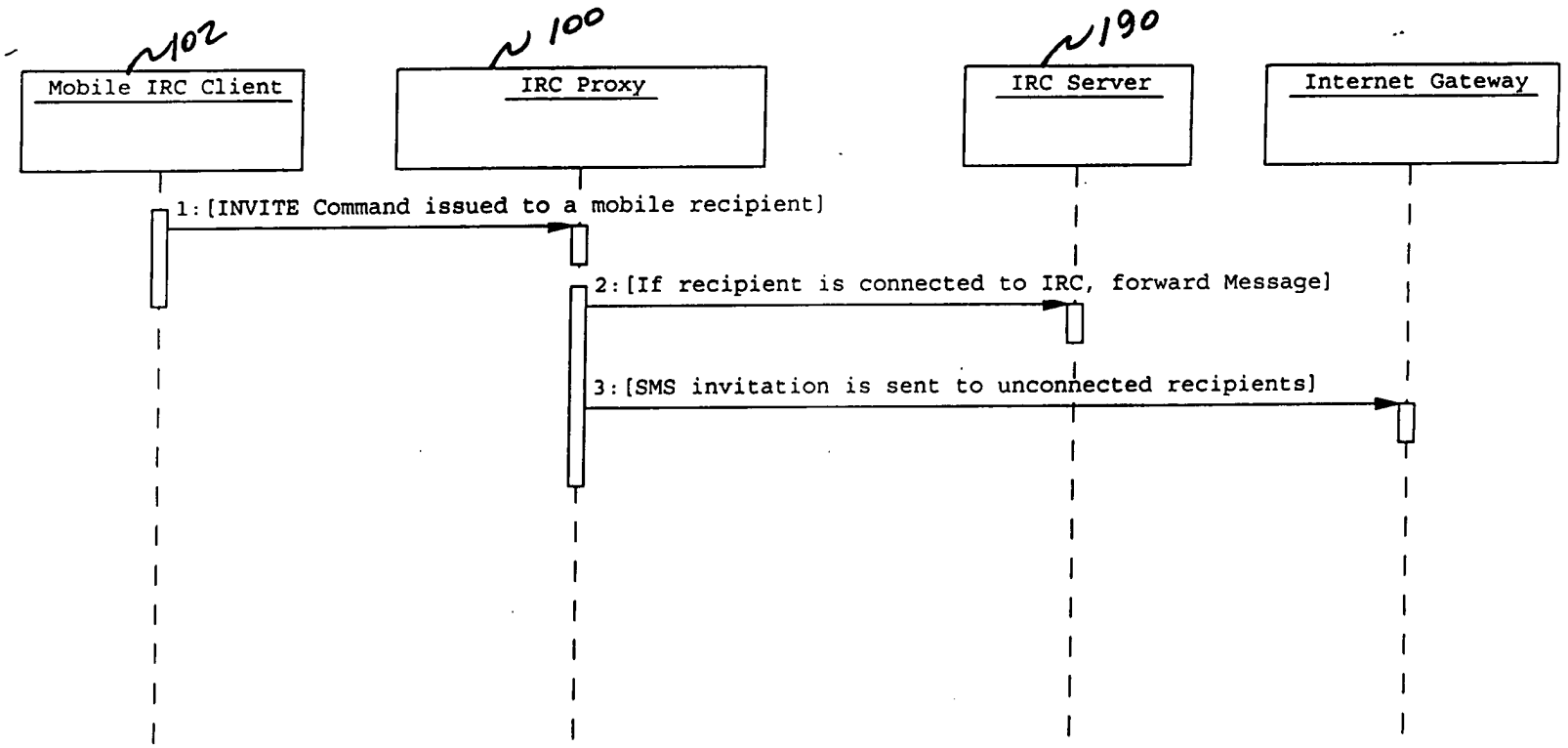
FIG. 15



GHOST Command

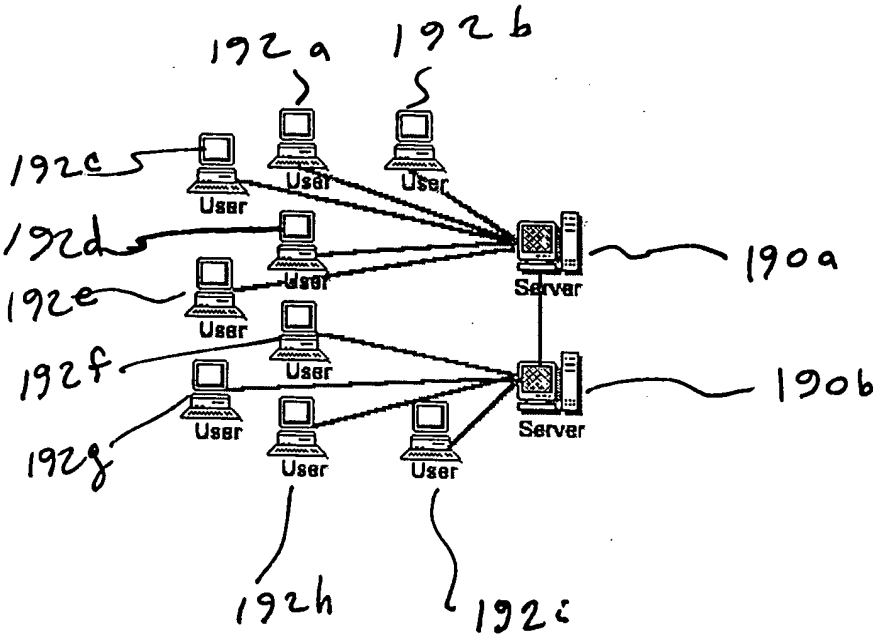
FIG. 16

DOCKET 92652560



INVITE Command

FIG. 17



PRIOR ART

FIG. 18